

## DuPont Nucrel® 535 Ethylene-Methacrylic Acid Copolymer Resin (discontinued \*\*)

Category : Polymer , Thermoplastic , Ethylene Methyl Acrylate

### Material Notes:

Nucrel® 535 is a tough, lightweight, easily processed ethylene copolymer resin. This resin is inherently flexible without the need for plasticizers. The resin can be pigmented, UV-stabilized for exterior applications and painted or plated for special decorative effects.

Nucrel® 535 has excellent tensile strength and low temperature impact properties. Typical Applications: Fabric coating Polymer

modifier Injection molding Features: Good mold flow to reduce molding cycle time Good adhesion to metals and polar substrates Low specific gravity-lightweight Information provided by DuPont.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Nucrel-535-Ethylene-Methacrylic-Acid-Copolymer-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_DuPont-Nucrel-535-Ethylene-Methacrylic-Acid-Copolymer-Resin-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in <sup>3</sup>	ASTM D792
Melt Index of Compound	35 g/10 min @Load 2.16 kg, Temperature 190 °C	35 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	48	48	Initial (peak) hardness; ASTM D2240
Tensile Strength at Break	21.4 MPa	3100 psi	Type IV specimen, compression molded, crosshead speed 2 in/min; ASTM D638
Elongation at Break	580 %	580 %	Type IV specimen, compression molded, crosshead speed 2 in/min; ASTM D638
Flexural Modulus	0.0710 GPa	10.3 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	723 kJ/m <sup>2</sup>	344 ft-lb/in <sup>2</sup>	At 23°C; ASTM D1822S
	486 kJ/m <sup>2</sup> @Temperature -40.0 °C	231 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ASTM D1822S

Thermal Properties	Metric	English	Comments
Melting Point	82.0 - 94.0 °C	180 - 201 °F	ASTM D3418(DSC)
Vicat Softening Point	75.0 °C	167 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Zone 1	160 °C	320 °F	
Zone 2	182 °C	360 °F	
Zone 3	193 °C	379 °F	
Zone 4	204 °C	399 °F	
Zone 5	204 °C	399 °F	
Die Temperature	204 °C	400 °F	
Melt Temperature	149 - 232 °C	300 - 450 °F	

Descriptive Properties	Value	Comments
Methacrylic Acid Content	10.5 wt.%	DuPont Method

## Contact Songhan Plastic Technology Co.,Ltd.

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